



ANIMAL CARE AND CONTROL DEPARTMENT

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Climate Action Plan

Data year: Fiscal year 2010-2011

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1. Introduction.

Animal Care and Control occupies a unique niche in San Francisco and continues to meet the unique challenges of its mission. We occupy a relatively small facility only 29,000 ft², but we are occupied 24 hours a day and care for animals around the clock. In addition to providing for the care and housing of animals in an aging converted warehouse, we provide animal law enforcement education and rescue services to the city. As a result, our water and energy requirements are greater than other buildings with similar footprints.

The ongoing challenge is to reduce greenhouse gas emissions by upgrading and maintaining aging equipment while still providing essential services to the people and animals of San Francisco. Our 2011 facility's CO2 emissions were 404.42 (mt) of which 96.4% were from the use of natural gas for heating and hot water used for cleaning purposes. Our hope is to reduce this by replacing older heating and control systems with more efficient equipment.

2. Department Profile

2a) Departmental Mission:

The Department of Animal Care & Control is responsible for the City & County of San Francisco's stray, injured, abandoned, neglected and mistreated animals, both domestic and wild.

The Department provides courteous and responsive service to the public with specific attention to public safety and ensures compliance with all state and local laws related to animals.

Further information about SFACC can be found at:

http://www.sfgov.org/site/acc_index.asp

2b) Departmental Budget:

ACC operates under San Francisco's GSA
Total budget for FY11-12: \$ \$4,087,673.

2c) Number of Employees:

Full time:34 Part time: 13

2d) Facilities:

Animal Care & Control is located at 1200 15th St. between Harrison and Alabama Sts. The shelter occupies a two-story 1930's era concrete warehouse containing 29,500 ft² of space. 27,250 ft² has been converted to animal facilities and office space, with the remaining 2,250 ft² used for parking shelter vehicles & laundry.

The first floor is primarily used for dogs, with 96 kennels. In addition, the lobby, veterinary clinic, a grooming room, visiting room, garage and one of two kitchens are on the first floor.

The second floor is mainly used for cats, with one room for puppies and two rooms for small and exotic animals. There are 290 small animal cages spread throughout the second floor in various configurations.

The shelter admin, Animal Care Officer squad room, second floor kitchen, x-ray room, laundry, volunteer rooms, warehouse and various offices are also on the second floor.

In addition, the shelter is bordered by a fenced in park area used for dog & rabbit recreation, training and evaluations.

The shelter houses on average 4,000 cats and 2,800 dogs over the course of a year. In addition approximately 3,500 small animals and wildlife such as rabbits, birds and reptiles are housed and cared for each year. Occupancy rates can vary widely for cats, with summer kitten season filling all available cages, while other animal occupancy rates are steadier, varying according to other factors such as the state of the economy.

2e) Fleet:

ACC's mission includes picking up stray, lost, dead or injured animals, providing adoption services, as well as enforcing laws related to animal care and behavior,. To achieve this we have a fleet of vehicles based at the shelter which are serviced by Central Shops. In addition the department participates in the City Car Share program to minimize the use of department vehicles when possible.

We currently have the following vehicles:

- 5 mid sized vans, fitted with cages. Gasoline powered.
- 1 full sized van fitted with cages, Gasoline powered.
- 1 small pickup truck for transporting large animals. Gasoline powered.
- 1 hybrid gasoline/electric pickup truck for various duties.
- 1 mid sized van for mobile adoption duties. Gasoline powered.
- 1 hybrid gasoline/electric sedan for administrative use.
- 1 CNG powered sedan used by the Vicious & Dangerous animal Unit..

2f) Contact information and title of lead staff member who oversees the implementation of this DepCAP

John Updike: Acting Director of Real Estate 554-9860
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Rebecca Katz: Director of Animal Care & Control 554-9413
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Kat Brown Deputy Director, ACC 554-9410
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Jeannie Taulealo: Admin Secretary 554-9413
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Nuvia Bolanos: Zero Waste coordinator 554-9408
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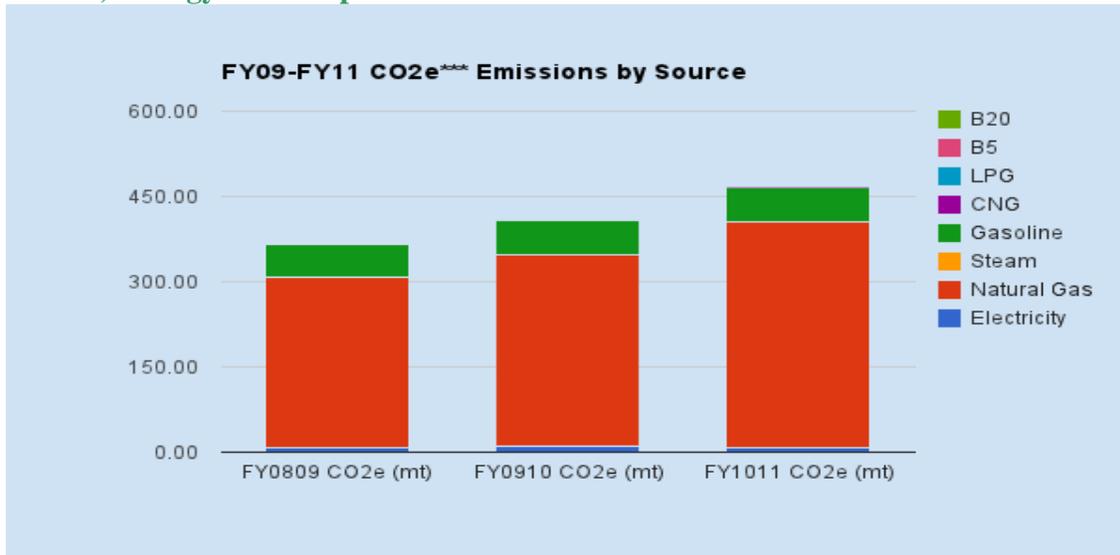
Liam Curry: Stationary Engineer 554-9432
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3. Departmental Carbon Footprint & Historical Analysis.

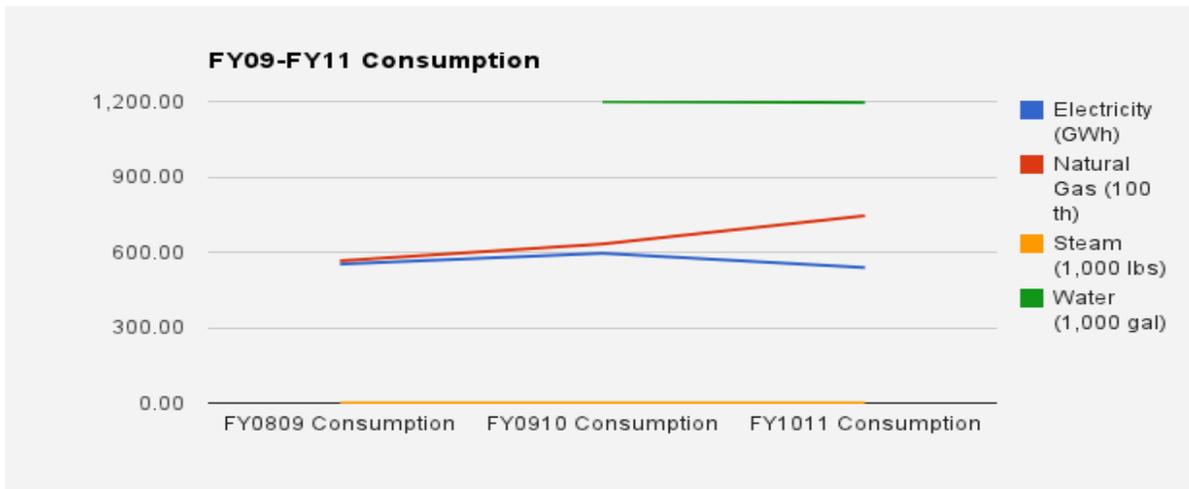
3a) Facilities & Reduction Measures

The list of facilities that is being used by SF Environment to calculate the FY10-11 departmental carbon footprint has been verified by Department of ABC's Climate Liaison to be accurate and complete.

3a1a) Energy Consumption & Emissions



FY	08/09 CO2e	09/10 CO2e	10/11 CO2e
Electricity	6.84	10.85	7.96
Natural Gas	301.05	336.65	396.45
Gasoline	58.53	60.71	60.17



Emission Source:	(Units):	FY08/09	FY09/10	FY10/11
Electricity	(kWh)	552,971.00	595,858.00	539,189.00
Natural Gas	(th)	56,592.00	63,284.00	74,527.00
Water	(gal)		1,199,792.00	1,196,052.00
Wastewater Discharge	(gal)		1,079,812.80	905,454.00
Gasoline	(gal)	6,644.90	6,892.46	6,831.98
CNG	(GGE)	0.00	3.90	194.50

Declining electricity usage reflects efficiency measures being implemented. Increased natural gas usage reflects increased laundry processing (larger washers & dryers installed) and aging heating/ventilating equipment.

3a1b)Energy Reduction Measures:

- An ongoing program to re-lamp & re-ballast ACC with T-8 lamps & electronic ballasts is almost complete, to be finished this year.
- An energy use audit was performed by PUC. The retrofit is currently in the planning phase, with upgrades to lighting, heating & ventilating systems scheduled to take place during the current year.
- Occupancy & photo-cell switches have been installed and are planned for various additional locations.
- Reminder signs installed at various light switches throughout shelter.



Compliance with the Existing Commercial Building Energy Performance Ordinance

In order to comply with the Existing Commercial Building Energy Performance Ordinance (Ord 17-11, SF Environmental Code Chapter 20), ACC used SFPUC's Energy Performance Benchmarking web tool to provide the SFPUC with the following information: Verification of the department's list of facilities, verification of existing data for each facility, ENERGY STAR benchmarking data specific to the primary EPA building category (such as weekly operating hours, number of workers on main shift, and additional information on the facility, subspaces, and parking areas).

Compliance with the Lighting Efficiency Ordinance

ACC is 80+% compliant with the lighting efficiency ordinance and a temporary waiver has been granted by the SFE. Lighting upgrades should be completed by PUC this year as part of an overall energy savings retrofit.

Renewable Generation:

- A preliminary survey was performed by SFPUC/Power Enterprise in 2010 to determine feasibility of installing a roof-mounted solar photovoltaic array. The results are as follows;

Usable roof area: 4,400 ft²
 Net. AC power generated annually: 70,266 kWh
 Percentage of current annual shelter power use: 11.8 %
 Estimated cost of installation: \$ 447,000.00
 Estimated payoff time: 20 years.
 Estimated CO2e reduction: 1.5 (metric tons)

- In addition, Acc is interested in installing wind-speed and direction data-loggers as part of a wind survey to explore the practicality of installing micro wind turbines.

3a2) Water:

As an animal care facility, ACC's primary water usage is for cleaning kennels and laundry. Irrigation water use is minimal, with a drip system installed in planters. Little water is required for the artificial turf covered recreation yard.

Water Use:

Consumption: 1,196,052.00 Gallons
 Wastewater Discharge..... 905,454.00 Gallons

3b) Fleet- Fuel use & reduction measures:



The Vehicles listed in Google-Docs have been verified: *

3b1) Fuel Use & CO2 Emissions: FY 2008-2011

FY	Gasoline (gal)	Gas CO2 (mt)	CNG (gge)	CNG CO2 (mt)	B-5 (gal)	B-5 CO2 (mt)
08/09	6,644.90	58.53	0.0	0.0	0.0	0.0
09/10	6,892.46	60.71	3.90	0.02	0.0	0.0
10/11	6,831.98	60.17	194.50	1.19	19.0	0.18

3b2) fleet:

- ACC's vehicles are administered and maintained by Central Shops.
- ACC currently has 3 alternatively powered vehicles, a Toyota sedan fueled by CNG, and 2 gas/electric hybrids, a Dodge pickup and Toyota Prius.
- ACC is investigating the purchase of electric or hybrid vans for Field Services use.
- Central Shops & DPW Electric Shop installed an electric vehicle charger at the shelter.



4. Other Sustainable Practices.

4a) Zero Waste:

- ACC has completed the Waste Assessment questionnaire & it is attached to this document.
- ACC fabricated a portable water station for outdoor events to comply with city-restrictions on purchasing bottled water.



- Our Zero Waste Coordinator, working with the custodians has placed signs, compost and recycling bins throughout the shelter.



4b) Employee Commute:

1) Transportation Survey:

- An employee commute survey notice was distributed via e-mail.
- Not enough data was received to conduct an analysis of the results.

2) Commuter Education Programs:

- A transit info board has been set up outside the 2nd floor community room to post information on various transit and commute programs.
- Employee commuter benefits program reminders are regularly put out via e-mail to all staff.
- Animal Care & Control operates with a small staff providing emergency response, animal care & housing on a 24/7 basis. The result is that department employees work multiple staggered shifts, making ride-sharing and shelter-wide meetings a challenge to schedule.
- SF Bicycle coalition installed 2 new bicycle racks in front of ACC's entrance. They are constantly in use.



4c) Green Purchasing:



Donated shelving racks.



Marble bench from recycled materials.

- ACC purchases office supplies according to the green purchasing guidelines, except where priority supersedes, e.g., Field Services, batteries for officers radios, vs. re-chargeable batteries.
- It is the policy of this Department to follow the Environmental Health lead and to purchase as many green products as feasible. However, due to ACC's law enforcement role in the community and the specialized needs of caring for and housing live animals, providing disease control, as well as our responsibility in maintaining safety for our staff, volunteers and the public in such an environment, we reserve the right to purchase items that assure our ability to carry out our mission in an efficient, effective and professional manner.
- ACC purchases office and janitorial supplies through City Hall's GSA and follows their green purchasing guidelines.
- With Real Estate Department's help, ACC installed 5 complete cubicle work stations in our front counter area obtained from the Virtual Warehouse program. The majority of the shelter's food is donated by Pet Food Express.
- 100% of ACC blankets and towels are donated.

4d) Information Technology.

- ACC's computers and server are administered through City Hall's GSAIT department.
- All CRT computer monitors have been replaced with flat screen LCD monitors.

4e) Carbon Sequestration / Urban Forestry

1) Tree Species and Location (for each tree):

Magnolia, 2 each, either side of front entrance on 15th Street.

Elm, 3 each, situated in dog park.

Japanese maple, 7 each, on Harrison St.

2) Associated GHG Benefits:

Unable to run carbon calculator software due to download errors or network security restrictions.

5. Community Wide Impact.

Because we are an Open-Door animal shelter (meaning, we must take in every animal that comes to us regardless of species, age, medical condition or temperament) and our operations are paid for by taxpayer dollars, our shelter invites the public to participate in a whole range of shelter Shelter. Our volunteers come from various backgrounds, skills and experience and are highly sensitive to the environment and animals and freely join ACC in going Green. We were one of the first City departments to replace bottled water dispensers with filtered water systems. We've placed signs in our restrooms reminding people to conserve water. Green-thinking is an essential part of our day-to-day operation and thus, we demonstrate to the public what we do to play our part in saving energy and resource management. In bi-monthly 3-4 hour meetings/orientations/trainings/tours with the public, this feature of the ACC shelter is discussed. ACC holds tours for 500 to 700 children a year, with children from SF/SPCA's Summer camp and the SFUSD who see how we function with regard to the environment.

